

A LIST OF THE ANTS OF WASHINGTON STATE

(Hymenoptera, Formicidæ)

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Seventy-nine species, subspecies, and varieties of ants are included in the following list. Of these, two, *Formica moki* subsp. *xerophila* M. R. Smith and *Leptothorax diversipilosis* M. R. Smith, are new and recently described species. Those thirteen forms indicated by an asterisk are reported for the first time from Washington.

The geographic range of the ants has been indicated by letters in brackets after each specific name. Thus [E] refers to eastern Washington; [W] to western Washington; and [EW] to both regions. Initials have been substituted for most of the collectors' names, and these have been placed after the name of the locality as follows: (TK), Professor Trevor Kincaid; (Wheel), Professor W. M. Wheeler; (Mann), W. M. Mann; (FS), Falconer Smith.

Free use has been made of several important papers on the Washington formicifauna* and reference to these is necessary for information on the biology of the ants.

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SUBFAMILY PONERINÆ

1. *Stigmatomma pallipes* subsp. *oregonense* Wheeler. [W] Seattle (FS); Bothell, Olympia (TK).

SUBFAMILY MYRMICINÆ

2. *Monomorium pharaonis* L. [W] Seattle (TK).
3. *Solenopsis geminata* Fabr. "California to British Columbia" (Barret).
4. *Solenopsis molesta* Say. [EW] Pullman, Wawawai (Mann); Olympia, Tenino [TK]; Tacoma, Dry Falls, Vantage, Soap Lake (FS).

*Mann, W. M. 1911. On some Western Ants and their Guests. *Psyche*, 8:493-514.

Wheeler, W. M. 1910. North American Ants of the Genus *Camponotus*. *Ann. Acad. Sci., N. Y.*, 20:295-354. — 1913. Ants of the Genus *Formica*. *Bull. Mus. Comp. Zool., Harvard*, 53:390-565.

5. *Solenopsis molesta* var. *validiuscula* Emery. [E] Wawawai (Mann).
6. *Pheidole californica* subsp. *oregonica* Emery. [E] Almota, Pullman, Wawawai (Mann); Corfu, Vantage, Grand Coulee, White Bluffs, Dry Falls (FS).
7. *Stenamma brevicorne* subsp. [W] Bay Center (TK); San Juan Is. (FS).
8. *Stenamma brevicorne* subsp. *diecki* Emery.* [W] Bay Center (TK).
9. *Stenamma nearcticum* Mayr. [W] San Juan Is. (FS).
10. *Aphænogaster subterranea* subsp. *occidentalis* Emery. [EW] Almota (A. L. Melander); Pullman, Wawawai (Mann); Olympia (TK); Fort Lewis, San Juan Is., Cle Elum (FS).
11. *Aphænogaster subterranea* subsp. *valida* var. *manni* Wheeler. [E] Pullman (Mann).
12. *Aphænogaster subterranea* subsp. *borealis* Wheeler.* [W] Olympia (TK); San Juan Is. (FS).
13. *Pogonomyrmex occidentalis* Cress. [E] Wawawai (Mann); Spokane (TK); Dead Man's Lake (Adams County), Moses Lake, Stratford, Toppenish, Vantage (FS).
14. *Myrmica mutica* Emery. [EW] Ellensburg, Pullman (Mann); Olympia, Nisqually River (TK); Stuck River (FS).
15. *Myrmica rubra* subsp. *brevinodis* Emery.* [W] Chase Lake (King County) (FS); Chinook, Bay Center, Naselle River (TK).
16. *Myrmica rubra* subsp. *brevinodis* var. *sulcinodoides* Emery.* [W] Naselle River, Bay Center (TK); Nisqually River, San Juan Is., Stuck River (FS).
17. *Myrmica rubra* subsp. *brevinodis* var. *subalpina* Wheeler. [W] Orcas Island (Mann).
18. *Myrmica scabrinodis* var. *sabuleti* Meinert. [W] San Juan Is. (Mann).
19. *Leptothorax acervorum* subsp. *canadensis* Prov.* [W] Bay Center, Olympia (TK); Seattle, Garland Hot Springs (FS).
20. *Leptothorax acervorum* subsp. *canadensis* var. *yankee* Emery. [W] Seattle, San Juan Is. (FS).
21. *Leptothorax curvispinosus* subsp. *rugatulus* Emery.* [EW] Seattle (TK); Fort Lewis, Leavenworth, Cle Elum, San Juan Is., Dryden (FS).
22. *Leptothorax nitens* subsp. *occidentalis* Wheeler. [W] Friday Harbor (TK), (FS).

23. *Leptothorax melanderi* Wheeler. [E] Pullman (Mann).
24. *Leptothorax eldoradensis* Wheeler.* [EW] Cle Elum (FS); Rosario (TK).
25. *Leptothorax diversipilosis* M. R. Smith.* [W] Fort Lewis (FS).

SUBFAMILY DOLICHODERINÆ

26. *Tapinoma sessile* Say. [EW] Pullman, Ellensburg, Orcas Island (Mann); Almota (A. L. Melander); Rock Lake (Wheeler); Cle Elum, San Juan Is., Seattle, Olympia, Mt. Angeles, Sequim, Grand Coulee (FS).
27. *Iridomyrmex analis* Andre. [E] Wawawai (Mann).

SUBFAMILY FORMICINÆ

28. *Brachymyrmex heeri* subsp. *depilis* Emery.* [E] Grand Coulee (FS).
29. *Lasius niger* var. *neoniger* Emery. [EW] Union City (J.C. Bradley); Pullman (Mann); Bay Center, Chinook, Nellikota (TK); San Juan Is., Seaview, Skating Lake (FS).
30. *Lasius niger* var. *americanus* Emery. [EW] Orcas Island (Mann); San Juan Is., Seattle, Soap Lake (FS).
31. *Lasius niger* var. *sitkaensis* Perg. [EW] Pullman (Mann); Olympia, Bay Center (TK); Seattle, Bluit Pass, Bothell, Fort Lewis, Mt. Rainier, Mt. Pilchuck, Neah Bay, San Juan Is., Seabeck, Stillaquamish River, Puyallup (FS).
32. *Lasius brevicornis* Emery. [E] Pullman (Mann); Cle Elum (FS).
33. *Lasius interjectus* Mayr. [E] Pullman (Mann).
34. *Lasius latipes* Walsh. [E] Pullman, Wawawai (Mann); Almota (A. L. Melander); Rock Lake (Wheeler).
35. *Lasius claviger* Roger.* [E] Grand Coulee (FS).
36. *Formica manni* Wheeler. [E] Kiona, Pullman, Wapato, Wawawai (Mann); Grand Coulee (FS).
37. *Formica sanguinea* subsp. *subintegra* Emery. [EW] Pullman (Mann); Olympia (TK).
38. *Formica sanguinea* subsp. *subnuda* Emery. [W] Seattle (Wheel.); San Juan Is., Mt. Pilchuck, Olympia, Garland Hot Springs (FS).
39. *Formica sanguinea* subsp. *puberula* Emery. [EW] Pullman (Mann); Olympia (TK).

40. *Formica oreas* var. *comptula* Wheeler. [EW] Pullman (Mann); San Juan Is. (FS).
41. *Formica truncicola* subsp. *integra* Nyl.* [EW] Cle Elum, Alder Creek (Chelan County), San Juan Is. (FS).
42. *Formica truncicola* subsp. *integroides* Emery.* [EW] Cle Elum, Yakima, Leavenworth, San Juan Is. (FS).
43. *Formica truncicola* subsp. *integroides* var. *subclaviceps* Wheeler. [W] San Juan Is. (Mann); Seattle (FS).
44. *Formica truncicola* subsp. *integroides* var. *hæmorrhoidalis* Emery. [E] Ellensburg (S. Henshaw).
45. *Formica rufa* subsp. *obscuripes* Forel. [EW] Pullman (Mann); Loon Lake (S. Henshaw); Rock Lake (A. L. Melander); San Juan Is., Grand Coulee (FS).
46. *Formica rufa* subsp. *obscuripes* var. *melanotica* Emery. [EW] Pullman (Mann); Olympia (TK); Tacoma, Fort Lewis, San Juan Is., Shelton, Seattle (FS).
47. *Formica microgyna* subsp. *rasilis* Wheeler. [W] Olympia (TK).
48. *Formica fusca* L. [EW] Pullman (Mann); Mt. Rainier (J. C. Bradley); San Juan Is. (Mann), (FS); Shaw Island, Bothell, Seattle, Paradise, Sequim, Tacoma, Olympic (FS), Labam (TK).
49. *Formica fusca* var. *subsericea* Say. [EW] Olympia (TK); Dry Falls, Tacoma (FS).
50. *Formica fusca* var. *argentea* Wheeler. [EW] Pullman, Wawawai (Mann); Yakima (S. Henshaw); Mt. Rainier, Seattle (Wheel.).
51. *Formica fusca* var. *marcida* Wheeler. [EW] Ellensburg, Kiona (Mann); Brinnon (J. C. Bradley); Soap Lake (FS).
52. *Formica fusca* var. *subænescens* Emery. [EW] San Juan Is. (Mann); Brinnon (J. C. Bradley); John Island, Cle Elum (FS).
53. *Formica fusca* var. *gelida* Wheeler. [EW] Olympic Mts. (J. C. Bradley); Toppenish, Leavenworth, Stratford, San Juan Is., Mt. Rainier, Orcas Is., Chase Lake (King County), Soap Lake (FS).
54. *Formica fusca* var. *neorufibarbis* Emery. [W] San Juan Is. (Mann); Union City, Mt. Rainier (J. C. Bradley); Olympia, Naselle River (TK); Bothell, Snoqualmie Falls, Granite Falls (FS).

55. *Formica fusca* var. *neoclara* Emery. [EW] Wawawai (Mann); Moses Lake, Goose Lake (FS); Olympia, Bay Center, North Bend, Nemah River (TK).
56. *Formica fusca* var. *blanda* Wheeler. [W] Olympia, Seattle (TK); Fort Lewis, Paradise (FS).
57. *Formica fusca* subsp. *pruinosa* Wheeler. [E] Wawawai (Mann).
58. *Formica fusca* var. *lutescens* Wheeler. [E] Ellensburg, Kiona, Wawawai (Mann).
59. *Formica rufibarbis* var. *occidua* Wheeler. [EW] Wawawai (Mann); Seattle (FS).
60. *Formica subpolita* Mayr. [EW] Orcas Is. (Mann); Vantage, Grand Coulee, San Juan Is., Tacoma (FS).
61. *Formica subpolita* var. *camponoticeps* Wheeler. [E] Rock Lake, Wawawai (Mann); Govan (J. A. Hyslop); Almota (A. L. Melander).
62. *Formica subpolita* var. *picea* Emery. [EW] Pullman (Mann); Grand Coulee, Seattle (FS).
63. *Formica cinerea* var. *lepida* Wheeler. [W] Seattle (TK) (FS); Sand River, Bay Center (TK); Garland Hot Springs, Stuck River (FS).
64. *Formica neogagates* Emery. [EW] Almota (A. L. Melander); Pullman, Wawawai (Mann); Soap Lake, San Juan Is. (FS).
65. *Formica neogagates* subsp. *lasioides* var. *vetula* Wheeler. [EW] Pullman (Mann); Olympia, Bay Center, San Juan Is. (TK).
66. *Formica moki* subsp. *xerophila* M. R. Smith.* [E] Leavenworth (FS).
67. *Formica pallide-fulva* subsp. *schaufussi* Mayr. [W] Seattle (TK) (FS).
68. *Polyergus rufescens* subsp. *breviceps* Emery. [E] Pullman (Mann).
69. *Camponotus lævigatus* Fred. Smith. [EW] Union City (J. C. Bradley); Seattle (TK); Bothell (FS).
70. *Camponotus maculatus* subsp. *vicinus* Mayr. [EW] Almota (A. L. Melander); Pullman, Grand Coulee (Mann); San Juan Is., Orcas Is., Shelton, Seattle (FS).
71. *Camponotus maculatus* subsp. *vicinus* var. *nitidiventris* Emery.* [EW] Nisqually River (TK); Cle Elum, Tacoma, San Juan Is., Soap Lake, Cashmere (FS).

72. *Camponotus maculatus* subsp. *vicinus* var. *luteangulis* Wheeler. [EW] Yakima River (S. Henshaw); Wawawai (Mann); Cle Elum, San Juan Is., Shelton (FS).
73. *Camponotus maculatus* subsp. *vicinus* var. *plorabilis* Wheeler. [EW] Almota (A. L. Melander); Ellensburg, Kiona, Pullman, San Juan Is. (Mann); Seattle (Wheel.).
74. *Camponotus maculatus* subsp. *maccooki* Forel. Washington (Osten Sacken).
75. *Camponotus herculeanus* subsp. *pennsylvanicus* De Geer. [W] San Juan Is (Mann).
76. *Camponotus herculeanus* subsp. *pennsylvanicus* var. *whymperi* Forel. [EW] Wenass, Spokane, Brinnon (Wheel.); Neppel (FS); Mt. Rainier (J. C. Bradley).
77. *Camponotus herculeanus* var. *modoc* Wheeler. [EW] Klikitat Valley (S. Henshaw); Pullman (C. V. Piper); Union City (J. C. Bradley); Olympia, Bay Center (TK); San Juan Is. (Mann) (FS); Park Forest Camp (Kittitas County); Maple Creek (Chelan County), Flowing Lake, Steven's Pass, Seattle (FS).
78. *Camponotus herculeanus* subsp. *ligniperdus* var. *novæboracensis* Fitch. [EW] Union City (J. C. Bradley); Nisqually River, Olympia (TK); San Juan Is., Seattle, Cle Elum (FS).
79. *Camponotus caryæ* (Fitch). [W] Washington (Wheel.); Olympia (TK).

THE MOSQUITO GENUS *MANSONIA* BLANCHARD IN CALIFORNIA

While studying material in the mosquito collection of the University of California the writer encountered four female specimens of *Mansonia perturbans* (Walker), a mosquito new to California. This is the first record of the genus *Mansonia* from California and greatly extends the known distribution of the species. Previously the species has been collected as far west as British Columbia, Montana, and the Mississippi Valley. The California specimens are from widely separated localities and were collected by Professor W. B. Herms, University of California, during the course of malaria mosquito surveys. The records are: Landers, Placer County, July 9, 1917; Galt, San Joaquin County, July 15, 1917; Holt, San Joaquin County, July 17, 1919; and Bakersfield, Kern County, July 28, 1919. The writer is indebted to Dr. Thomas H. G. Aitken for verification of his determination.—WILLIAM C. REEVES.